AMENDMENTS TO THE CLAIMS

Listing of claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of making a liquid crystal display comprising:

a front panel comprising a front alignment layer having an alignment direction;

a rear panel comprising a rear alignment layer having an alignment direction; and

a liquid crystal layer between the front and rear alignment layers;

wherein at least one of the front and rear panels further comprises a polarizer, said

polarizer comprising a thin crystal film manufactured from a plurality of aromatic organic

compounds, and the interplanar distance of the thin crystal film in the direction of any optical

axis is 3.4 ± 0.3 Å

wherein the liquid crystal layer has a rotational twist angle of about 90°, a pre-tilt angle of

not more than 2°; and

the method comprising the step of setting the direction of liquid crystal directors

coinciding with an off-normal viewing direction of the liquid crystal display at the mid-point of

the rotational twist when a voltage is applied to the liquid crystal layer by selecting the

alignment, material and thickness of the liquid crystal layer whereby a maximum image contrast

is achieved in the off-normal viewing direction.

Amendment

Application No. 10/613,328

Attorney Docket No. 071174

2. (Previously presented) The method of claim 1 wherein the front panel further

comprises a front polarizer, and the rear panel further comprises a rear polarizer.

3. (Previously presented) The method of claim 2 wherein the transmission axes of the

front and rear polarizers are perpendicular.

4. (Previously presented) The method of claim 2 wherein the transmission axes of the

front and rear polarizers are parallel.

5. (Previously presented) The method of claim 2 wherein at least one of front and rear

polarizers is E-type polarizer, and the transmission axis of the E-type polarizer and the alignment

direction of the alignment layer in the same panel as the E-type polarizer are perpendicular.

Claim 6 (cancelled).

7. (Previously presented) The method of claim 23 wherein at least one of the aromatic

organic compounds contains heterocycles.

8. (Previously presented) The method of claim 23 wherein the thin crystal film is formed

from a lyotropic liquid crystal based on at least one dichroic dye.

Amendment

Application No. 10/613,328

Attorney Docket No. 071174

9. (Previously presented) The method of claim 8 wherein the thin crystal film is treated

with ions of bi-or/and trivalent metals.

10. (Previously presented) The method of claim 2 wherein the front and rear polarizers

are O-type polarizers.

11. (Previously presented) The method of claim 10 wherein the transmission axis of the

front O-type polarizer is parallel to the alignment direction of the front alignment layer, and the

transmission axis of the rear O-type polarizer is parallel to the alignment direction of the rear

alignment layer.

12. (Previously presented) The method of claim 2 wherein the transmission axis of the

front polarizer and the alignment direction of the front alignment layer form an angle from 0° to

90°.

13. (Previously presented) The method of claim 2 wherein the transmission axis of the

rear polarizer and the alignment direction of the rear alignment layer form an angle from 0° to

90°.

Amendment

Application No. 10/613,328

Attorney Docket No. 071174

14. (Previously presented) The method of claim 2 wherein at least one of the front and

rear polarizers is an internal polarizer.

15. (Previously presented) The method of claim 14 wherein the internal polarizer has at

least one of the functions selected from the group consisting of an alignment layer, color

correction filter, retarder, and any combination thereof.

16. (Previously presented) The method of claim 1 further comprises a reflective layer.

17. (Previously presented) The method of claim 16 wherein the reflective layer is

semitransparent.

18. (Previously presented) The method of claim 17 further comprises a backlighting

system.

19. (Previously presented) The method of claim 1 further comprises an antireflection or

antiglare layer.

20. (Previously presented) The method of claim 1 further comprises a light-scattering

layer.

Amendment Application No. 10/613,328

Attorney Docket No. 071174

21. (Previously presented) The method of claim 1 further comprises a retarder layer, a

protective layer, an adhesive layer, a color filter, or a layer combining functions of at least two of

the said layers.

22. (Previously presented) The method of claim 1 wherein the off-normal viewing

direction is in the range of 15° to 35° in azimuth angle, and in this range, the maximum contrast

ratio is not lower than 40.

23. (Previously presented) The method of claim 5 wherein the E-type polarizer is a thin

crystal film manufactured from aromatic organic compounds, and the interplanar distance of the

thin crystal film in the direction of any optical axis is 3.4±0.3 Å.